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ELECTRIC **LAWN MOWER**

FSM R1

Florabest

GB **ELECTRIC LAWN MOWER**
IE Operation and Safety Notes
CY

GB Before reading, unfold both pages containing illustrations and familiarise yourself with all functions
IE of the device.
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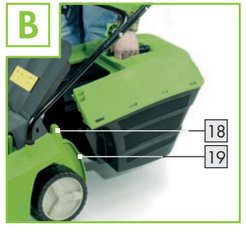
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The following pictogrammes / symbols are used in these operating instructions:			
	Read the operating instructions!		Protection category II power tool; double insulated
	Always heed warning labels and safety instructions!		Wear hearing protection, dust protection mask, protective glasses and protective gloves.
	Caution - Danger of electric shock! Hazardous voltage – danger to life!		Always keep uninvolved persons and animals away from the appliance!
	Risk of explosion!		Keep children and other unauthorised personnel at a safe distance when using electrical tools.
	Separate the power cable from the power source in the event of breakdowns, troubleshooting, cleaning and maintenance!		Keep the device away from rain or moisture. Water entering an electrical device increases the risk of electric shock.
	Keep the power cable away from the curved blade bar!		Damaged appliances, power cables and power plugs mean potentially fatal risks from electric shock. Regularly check the condition of the appliance, the power cables and the power plugs.
V~	Volt (AC)		The curved blade bar continues to rotate after switch off!
W	Watts (effective power)		Caution! Sharp cutting edge! Avoid ALL physical contact with the sharp and fast-rotating curved blade bar!
	Take steps to ensure that people and animals are not injured by objects catapulted away by the appliance!		Dispose packaging and appliance in an environmentally-friendly way!

Electric Lawn Mower FSM R1

Introduction

Before using the appliance for the first time make yourself familiar with all functions of the appliance and become familiar with the correct handling of electrical tools. To do this, read the following operating instructions. Use the appliance only as described and only for the specified areas of application. Retain these instructions for future reference. Also, pass them on to whoever might acquire the appliance at a future date.

Intended purpose

This appliance is certified exclusively for hand operation in the care of grassed areas in private gardens. This appliance in intended only for domestic use. All other usages, and modifications to the appliance, are deemed to be improper applications and bring with them a high potential for serious accidents. The manufacturer accepts no liability for damage resulting from improper application.

Equipment components FSM R1

1 Steering shaft handle
2 Upper shaft handle
3 Safety button

4 Power socket
5 Handle switch
6 Power cable
7 Power cable strain relief
8 Screw connection 2 x
9 Lower shaft handle
10 Grass box with carrying handle
11 Impact protection flap
12 Switch lever for cutting height adjustment
13 Front wheels 2 x
14 Housing with carrying handle and ventilation slits
15 Retaining screw 2 x
16 Rear wheels 2 x
17 Cover for retaining screw 2 x (see Fig. A)

(see Fig. B)
18 Upper attachment device 2 x
19 Clippings ejection shaft

(see Fig. C, F)
20 Cable clip 2 x (see Fig. C)
21 Curved blade bar
22 Securing bolt with washer

Items supplied

1 Electric Lawn Mower FSM R1
1 Upper shaft handle
1 Lower shaft handle
1 Grass box upper component
2 Grass box lower components
2 Connecting screws
2 Retaining screws
1 Power cable strain relief
2 Cable clips
2 Covers for retaining screw
1 Operating manual
1 Booklet "Warranty and Service"

Technical Data

Electric Lawn Mower FSM R1

Nominal voltage:	230 V ~ 50 Hz
Nominal power:	1500 W
Cutting width:	40 cm
Cutting height:	20 - 70 mm
Adjustment:	synchronised / 6 - levels
Weight:	12 kg approx.
Protection class:	II / ⧈
Protection type:	IPX4 (protected against spray water from all directions)

Information on sound levels and vibration:

A-weighted noise level.

Sound pressure level:	75 dB(A)
Sound power level:	96 dB(A)

Weighted acceleration, typical:

Hand-arm vibration:	4.41 m / s²

FSM R1
KH3161
230 V ~ 50 Hz
1500 W · ca. 12 kg · IPX4
96 dB
Kompernaß GmbH · D-44867 Bochum · Germany · www.kompernass.com
Date of manufacture: 01-2008
Florabest

General safety advice

- **Attention!** Please read all the instructions and advice. Failure to observe the instructions and advice given below may result in electric shock, fire and / or serious injury.

MAKE SURE THAT YOU KEEP THESE INSTRUCTIONS AND SAFETY ADVICE IN A SAFE PLACE.

1. Your working area

a) **Keep your working area clean and clutter-free.** Untidy or poorly lit working areas can lead to accidents.

b) **Do not work with the device in potentially explosive environments in which there are inflammable liquids, gases or dusts.** Electrical power tools create sparks, which can ignite dusts or fumes.

c) **Keep children and other people away while you are operating the electrical tool.** Distractions can cause you to lose control of the device.

2. Electrical safety

a) **The mains plug on the device must match the mains socket. The mains plug must not be modified in any way. Do not use an adapter plug with devices fitted with a protective earth.** Unmodified mains plugs and matching sockets reduce the risk of electric shock.

b) **Avoid touching earthed surfaces such as pipes, radiators, ovens and refrigerators with any part of your body.** There is an increased risk of electric shock if your body is earthed.

c) **Keep the device away from rain or moisture.** Water entering an electrical device increases the risk of electric shock.

d) **Do not use the mains lead for any purpose for which it was not intended, e.g. to carry the device, to hang up the device or to pull the mains plug out of the mains socket. Keep the mains lead away from heat, oil, sharp edges or moving parts of the device.** Damaged or tangled mains leads increase the risk of electric shock.

3. Personal safety

a) Children or persons who lack the knowledge or experience to use the device or whose physical, sensory or intellectual capacities are limited must never be allowed to use the device without supervision or instruction by a person responsible for their safety. Children must never be allowed to play with the device.

b) **Remain alert at all times, watch what you are doing and always proceed with caution. Do not use the device if you are tired or under the influence of drugs, alcohol or medication.** One moment of carelessness when using the device can lead to serious injury.

c) **Wear personal protective equipment and always wear safety glasses.** The wearing of personal protective equipment such as dust masks, non-slip safety shoes, safety helmets or ear protectors, appropriate to the type of electrical power tool used and work undertaken, reduces the risk of injury.

d) **Avoid unintentional operation of the device. Make sure that the switch is in the "OFF" position before you insert the mains plug into the socket.** Accidents can happen if you have been carrying the device with your finger on the switch or you have already switched the device on before you connect it to the mains.

e) **Remove any setting tools or spanners before you switch the device on.** A tool or spanner left attached to a rotating part of a device can lead to injury.

f) **Do not overestimate your own abilities. Keep proper footing and balance at all times.** By doing this you will be in a better position to control the device, especially in unforeseen circumstances.

g) **Wear suitable clothing. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves clear of moving parts.** Loose clothing, jewellery or long hair can become trapped in moving parts.

4. Careful handling and use of electrical tools

a) **Do not overload the device. Always use an electrical power tool that is intended for the task you are undertaking.** By using the right electrical power tool for the job you will work more safely and achieve a better result.

b) **Do not use an electrical power tool if its switch is defective.** An electrical power tool that can no longer be switched on and off is dangerous and must be repaired.

c) **When not in use always ensure that electrical power tools are kept out of reach of children. Do not let anyone use the device if he or she is not familiar with it or has not read the instructions and advice.** Electrical power tools are dangerous when they are used by inexperienced people.

d) **Look after the device carefully. Check that moving parts are working properly and move freely. Check for any parts that are broken or damaged enough to detrimentally affect the functioning of the device. Have damaged parts repaired before you use the device.** Many accidents have their origins in poorly maintained electrical power tools.

e) **Keep cutting tools clean and sharp.** Carefully maintained cutting tools with sharp cutting edges are less likely to jam and are easier to control.

f) **Use the electrical power tool, accessories, inserted tools etc. in accordance with these instructions and advice, and the stipulations drawn up for this particular type of device. In doing this, take into account the working conditions and the task in hand.** The use of electrical power tools for purposes other than those intended can lead to dangerous situations.

Appliance specific safety notices

Avoid mortal danger caused by electric shock:

- Regularly check the condition of the appliance, the power cables and the power plugs. Do not use appliances showing damage to these components. NEVER open the appliance. Arrange for repair or component replacement work to be carried out by the Service Centre or specialists for electrical repairs. Damaged appliances, power cables or power plugs present a danger to life through electric shock.
- Separate the power cable from the power source in the event of breakdowns, troubleshooting, cleaning and maintenance!
- Keep the power cable away from the curved blade 21 bar! Always have the cable trailing behind the lawn mower! In the event of damage to the power cable immediately remove the plug from the socket! DO NOT touch the power cable until you have separated the appliance from the power supply!
- Use exclusively an extension cable that is certified for use outdoors: One conforming to H05VV-F or H05RN-F! The plug coupling must be fitted with rain / spray water protection (rubber coated).
- Avoid all possibility of contact by the extension cable with the curved blade bar 21!
- Lay the extension cable over the shortest and most direct route to the wall socket to which it is connected!
- Before making the power connection, ensure that the power socket carries 230 V ~ 50 Hz and is fitted with a 16 Ampere fuse as required by the safety regulations!
- Additionally, protect yourself against leakage current when working in outside areas by fitting an FI protection switch (not supplied) with a max. rating of 30 mA! Otherwise, there is a danger to life through electric shock!

- Under no circumstances should you use the appliance when it is wet and / or in a moist environment (e.g. with very wet grass)!

Important! Avoid dangers to life and limb:

- Do not leave small children unsupervised with the packaging material! It presents a real danger of suffocation!
- Always keep uninvolved persons and animals away from the appliance!
- Take steps to ensure that people and animals are not injured by objects catapulted away by the appliance!

  The appliance operator is responsible for injuries sustained by third parties and for damage caused to their property!
- The curved blade bar 21 continues to rotate after switch off!
- **Caution! Sharp cutting edge!** Avoid ALL physical contact with the sharp and fast-rotating curved blade bar 21! Especially when switching on, maintain an adequate safety distance from the curved blade bar with your feet 21!
- Drive the appliance with forward movements only, with both hands on the steering shaft handle 1!
- Under no circumstances should you pull the appliance towards you!
- Avoid tilting or lifting the appliance when it is switched on! Only mow when the front wheels 13 and the rear wheels 16 have contact with the ground!
- Remove the plug from the wall socket:
  - before every cutting height adjustment
  - before assembly or transportation
  - before attempting to free a possibly blocked curved blade bar 21.

  Ensure, by visually checking, that the curved blade bar 21 has come to a complete stop.
- Be especially careful when adjusting or exchanging the curved blade bar 21 that your fingers do not become trapped between the knife and immobile components on the appliance!
- Use protective equipment / clothing:

  Safety shoes (closed, with non-slip profile soles)!

  Protective gloves for: Assembly, maintenance, cleaning and troubleshooting!

  Long-legged trousers - Under no circumstances should your legs or feet be uncovered!
- Avoid falls!:
  - Be aware of having safe standing, especially on slopes.
  - Push the appliance with walking speeds only! Do not run or hurry!
  - Work sloped stretches from side to side only, not from top to bottom!
  - Ensure you have safe standing on changes of direction and reverse movements!
- Under no circumstances should you work: Steep slopes / Balcony or roof areas / Stepways / Gravel or hardcore areas / Plant or flower tubs resp. boxes / River or canal side cultivations / Snow and ice areas!
- Never lift the impact protection flap 11 when the appliance is switched on! It could happen that objects are catapulted from the clippings ejection shaft 19.
- Never place yourself before the clippings ejection shaft 19.
- Use the appliance only when there are adequate visibility conditions, e.g. daylight or an artificial light source!
- Never leave the appliance unsupervised! Disconnect the appliance from the power source for extended breaks and when it is not in use.
- Store the appliance in a dry area, protected from non-permitted use.

This is conducting yourself correctly!:

- Before taking it into use, check that all compo-nents are present and undamaged! Use the appliance only when it is complete and correctly assembled!

- Check before use that the cutting edge is not blunt and that its mounting is not damaged. Replace blunt or damaged cutting tools in a complete set so as not to create a dynamic unbalance.
- Check the grass box 10 regularly for signs of wear or deformation.
- Regularly check all nuts and screws for their tightness, to ensure a faultless operating condition for the appliance.
- Avoid all collisions between the appliance and foreign objects (e.g. branches, stones, metal parts and toys)! Check the grassed area over and remove all foreign objects!
- Adjust the cutting height of the appliance such that thecurved blade bar 21 cannot make contact with the ground (unevenness)!
- In the event of a collision with a foreign object or unusual vibrations, check the appliance for possible damage and, if need be, arrange for it to be repaired.
- Never use the appliance with damaged protective fittings or coverings or deficient protective equipments such as deflective or grass box components.
- For collecting the clippings, use the grass box exclusively 10!
- Only exchange damaged or worn parts for original spare parts!
- Only use replacement cutting tools of the same type as those fitted into the appliance.
- Switch the lawn mower off and remove the plug when you transport it, cross areas other than grass or bring the appliance from or to an area to be mown.

● Commissioning

● Assembly

⚠ Danger!

- Carry out the assembly ONLY with the appliance switched off and separated from the power supply!
- Avoid causing damage to the power cable 6 e.g. through squashing it!

(!) Tip!

- Lift the appliance from its packaging together with a second person.

Fasten the steering shaft to the appliance.

- □ Attach the power cable strain relief 7 to the lower shaft 9.
- □ Place a retaining screw cover 17 on to each of the tube ends of the lower shaft handle 9, see Fig. A.
- □ Insert the tube ends of the lower shaft 9 into the two holes in the housing 14 (see Fig. A).
- □ Screw them down tightly with the two retaining screws 15.
- □ Now push the the retaining screw covers 17 over each of the retaining screws.
- □ Fasten the upper shaft 2 with the help of both connecting screws 8 to the lower shaft 9.
- □ Secure the power cable 6 with both cable clips 20 to the upper 2 and lower shafts 9 (see Fig. C).

Assembling the 10 grass box

- □ Exactly fit the 2 grass box lower components together with the grass box upper component. Begin with the lower components.
  The fasteners snap in clearly.

● Grass box - fitting / removing

⚠ Danger!

- Switch the appliance off! Wait until the curved blade bar 21 comes to a complete stop!

Fitting

- □ Raise up the impact protection flap 11.
- □ Attach the grass box 10 to the upper attachment devices 18 and fit it into the clippings ejection shaft 19 (see Fig. B).

- □ Lay the impact protection flap 11 onto the grass box 10.

Removal

- □ Raise up the impact protection flap 11.
- □ Remove the grass box 10.

● Adjusting the cutting height

⚠ **Danger!**

- ■ Switch the appliance off! Wait until the curved blade bar 21 comes to a complete stop!
- □ The appliance permits 6 adjustments of cutting height, from 20 to 70 mm (see Fig. D).

ⓘ **Tip!**

- □ For the first cut of the season, when the stems have grown to at least 5 to 6 cm, set a high cutting height. Subsequently, always mow with the same cutting height adjustment, if possible. Repeat this procedure weekly if possible, for as long as the grass continues to grow - i.e. into the autumn. Immediately before the winter period mow the grass for the last time down at the usual cutting height.

- □ Release the switch lever for cutting height adjustment 12 to the outside.
- □ Lift or lower the lawn mower to the desired cutting height, up or down.
- □ Re-engage the switch lever for cutting height adjustment 12.

● Connection to the power supply

⚠ **Danger!**

- ■ Connect the plug coupling of the extension cable with the power socket 4.
- ■ Secure the extension cable by hanging it in the power cable strain relief fitting 7.

● Operation

● Switching the appliance on / off

- □ Switch the appliance on only when the curved blade bar o and the motor have come to a complete stop!
- □ Under no circumstances should you switch the appliance on and off in quick successions!

Switching on

- □ Press and hold the safety button 3.
- □ Then pull the handle switch 5 towards the steering shaft handle 1.
- □ Hold the handle switch 5 firmly and release the safety button 3.

Switching off

- □ Release the handle switch 5.

The curved blade bar 21 continues to rota-te after switching off! Avoid all physical contact with the sharp and fast-rotating curved blade bar 21!

● Operating the mower

- □ Mow only with forward movements and with a steady and even walking tempo.
- □ Start close to the wall power socket, at the edge of the grassed area.
- □ Mow from there with bordering cutting paths and in alternating directions.

⚠ **Overload protection**

The overload protection prevents damage to the appliance. It switches the motor off as soon as a blockage is apparent or an overload threatens.

- □ If the overload protection activates itself, allow the appliance to remain switched off for ca. 5 minutes.
- □ Remove the possible cause (e.g. long grass straws or foreign bodies).
- □ Increase the cutting height by about 2 cm should the overload have been caused by long grass straws.

- Take the appliance back into use exclusively when it is undamaged.

Transporting / storing the mower

⚠ Danger!
- Switch the appliance off! Wait until the curved blade bar 21 comes to a complete stop.
- Separate the appliance from the power source!

Transporting
- Push the appliance by the steering shaft handle 1 or carry it by the carrying handle on the housing 14.

Storage
- Store the appliance in a dry area, protected from non-permitted use.
- To save space, fold the upper shaft handle 2 down. For this, loosen the two connecting screws 8 (see Fig. E).
- Take steps to ensure the power cable 6 is not trapped or squeezed.
- Do not place any objects on the appliance.

Maintenance and Cleaning

Maintenance

- Before every use, always check by visual control:
  - the power cable 6 and the extension cable for damages, especially to the protective isolation covering (e.g. tears, breaks).
  - the curved blade bar 21 and the securing bolt 22 for wear and tear.
  - for faultless assembly.
- Use the appliance only when it is complete, correctly assembled and without visible damage.

Changing the curved blade bar 21.
- Remove the grass box 10 and lay the appliance on its side.
- To counter the rotary movement caused by unscrewing, place a restrainer (screwdriver or similar) into the insert opening.
- Unscrew the securing bolt 22 from the drive shaft with an SW 13 mm spanner.
- Remove the curved blade bar 21.
- Firmly affix the new curved blade bar 21 with the securing bolt 22 and the washer back on to the drive shaft.
  The marking for the direction of rotation on the curved blade bar must be visible (see Fig. F).
- Remove the restrainer and bring the appliance back into an upright position.

Cleaning

Appliance upper surfaces
- Directly after mowing, thoroughly remove all grass remnants and grime.
- Pay particular attention to cleaning the ventilation slits in the housing 14.
- Use a cloth and a hand brush.

Appliance lower surfaces
- Remove the grass box 10 and lay the appliance on its side.
- Pay particular attention to cleaning the curved blade bar 21 and its surroundings.
- Use a hand brush as well as a wood or plastic rod.
- Under no circumstances should you use water, solvents or detergents!

Troubleshooting

⚠ **Danger!**

-

Wear protective work gloves!

● **Fault**
◉ Cause
○ Cure

● **The appliance doesn't work.**
◉ The electrical power supply is defective.
○ Check the connections of the appliance.
○ Arrange for the power supply to be checked over by an electrician.
◉ The extension cable or the power cable 6 is damaged.
○ Provide for replacement and / or repair.
◉ The fuse and / or the FI protection switch were activated.
○ Eliminate the cause and, if necessary, arrange for overhaul of the system.
◉ The overload protection was activated.
○ Eliminate the cause.
○ Only take the appliance into use when it is undamaged. Increase the cutting height and if need be tilt the appliance slightly when switching on.
◉ **The appliance is defective.**
○ Arrange for repair and / or replacement.

● **The grass stems are not cleanly cut, rather, they are crushed / torn.**
◉ The cutting height is set too low.
○ Increase the cutting height.
◉ The curved blade bar 21 o is blunt / worn out.
○ Exchange the used curved blade bar 21 for a new one.

● **The appliance generates loud noises and / or vibrations.**
◉ The curved blade bar 21 o is incorrectly assembled.
○ Re-assemble the curved blade bar 21 o correctly.
◉ The curved blade bar 21 o is damaged.
○ Exchange the curved blade bar 21 for a new one.

Disposal

The packaging is wholly composed of environmentally-friendly materials that can be disposed of at a local recycling centre.

Do not dispose of electrical tools in your normal domestic waste!

According to EC Guideline 2002 / 96 / EG for used electrical and electronic appliances, and its adop-tion into national laws, worn-out electrical tools must be separately collected and subjected to an environmentally friendly recycling procedure.

Further information about the disposal of superannuated appliances can be obtained from your local community administration.

Information

Service

Details of the service centre responsible for your country are contained in the warranty documentation.

- Have your device repaired only by qualified specialist personnel using original manufacturer parts only. This will ensure that your device remains safe to use.

Conformity Declaration / Manufacturer CE

We, Kompernaß GmbH, Burgstr. 21,
D-44867 Bochum, Germany, hereby declare that this product complies with the requirements of the following EU directives:

Machine Guidelines (98 / 37 / EC)

EC Low Voltage Regulations (2006 / 95 / EC)

EMC (Electromagentic Compatibility) (2004 / 108 / EC)

Directive relating to the noise emission in the environment by equipment for use outdoors (2000/14/EC)

Product designation:
Florabest Electric Lawn Mower FSM R1

Bochum, 31.10.2007

Hans Kompernaß
- Managing Director-

We reserve the right to make technical modifications in the course of further development.